

TABLE 22. Domestic R&D paid for and performed by the company, by industry, company size, and domestic R&D program size: 2014
(Millions of U.S. dollars)

Industry	NAICS codes	R&D program size					
		All companies	Less than \$1 million	\$1 million–\$9.999 million	\$10 million–\$49.999 million	\$50 million–\$99.999 million	\$100 million or more
All industries	21–23, 31–33, 42–81	282,570	8,248 i	22,095	25,722	16,335	210,170
Manufacturing industries	31–33	192,160	4,242 i	11,985	16,797	11,543	147,593
Food	311	5,071 i	221 i	970	579	312 i	2,989 i
Beverages and tobacco products	312	819	D	51	146	D	D
Textiles, apparel, and leather products	313–16	616	85 i	146	198	187	0
Wood products	321	351 i	20 i	58 i	273 i	0	0
Paper	322	711	56 i	97	111	110 i	338
Printing and related support activities	323	232	48 i	101	84	0	0
Petroleum and coal products	324	229	D	55	100	D	0
Chemicals	325	56,488	524 i	2,031	4,326	2,647	46,960
Basic chemicals	3251	2,554	75 i	322	581	476	1,100
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,136	44 i	164	137	0	791
Pesticides, fertilizers, and other agricultural chemicals	3253	1,327 i	36 i	19	98	0	1,174 i
Pharmaceuticals and medicines	3254	47,646	128 i	1,196	3,044	1,902	41,376
Soaps, cleaning compounds, and toilet preparations	3256	2,531	101 i	141	253	95	1,941
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,294 i	140 i	189	213	174 i	578 i
Plastics and rubber products	326	3,416	262 i	550	519	477 i	1,609
Nonmetallic mineral products	327	1,420 i	50 i	162	185	95	928 i
Primary metals	331	615	54 i	126	245	0	190
Fabricated metal products	332	2,000	483 i	721	576	220 i	0
Machinery	333	11,458	724 i	1,546	1,800	1,140	6,249
Agricultural implements	33311	1,539	D	91	90	171	D
Semiconductor machinery	333295	2,821	19 i	93 i	154	151 i	2,404
Engines, turbines, and power transmission equipment	3336	2,285	16 i	D	127	223	D
Other machinery	other 333	4,813	D	D	1,428	594	D
Computer and electronic products	334	64,695	718 i	2,152	2,892	3,446	55,488
Communications equipment	3342	16,808	148 i	379	326	928	15,026
Semiconductors and other electronic components	3344	30,029	151 i	524	1,133	1,194	27,028
Navigational, measuring, electromedical, and control instruments	3345	10,576	337 i	978	947	851	7,463
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,697	70 i	255	301	480	2,590
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,984	8 i	94 i	126	47	2,711
Other measuring and controlling devices	other 3345	3,895	259 i	629	521	324 i	2,162

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Other computer and electronic products	other 334	7,282	81 i	272	486	473	5,970
Electrical equipment, appliances, and components	335	4,178	247 i	736	1,311 i	416	1,469
Transportation equipment	336	27,261	223 i	986	1,627	1,507	22,917
Automobiles, bodies, trailers, and parts	3361–63	15,900	116 i	580	929	1,041	13,234
Aerospace products and parts	3364	10,300	50 i	277	486	386	9,101
Aircraft, aircraft engines, and aircraft parts	336411–13	10,011	48 i	D	372	D	D
Guided missiles, space vehicles, and related parts	336414–15, 336419	289	2 i	D	114	D	D
Military armored vehicles, tanks, and tank components	336992	10	2 i	9	0	0	0
Other transportation	other 336	1,051	55 i	121	212	81	583 i
Furniture and related products	337	369	101 i	90	178	0	0
Miscellaneous manufacturing	339	12,230	D	1,406	1,650	D	D
Medical equipment and supplies	3391	9,809	176 i	994	1,283	636	6,719
Other miscellaneous manufacturing	3399	2,421	D	412	367	D	D
Nonmanufacturing industries	21–23, 42–81	90,409	4,006 i	10,110	8,925	4,792	62,577
Mining, extraction, and support activities	21	3,821	D	179	143	D	3,415
Utilities	22	258	24 i	41	82	111	0
Wholesale trade	42	329 i	237 i	91	0	0	0
Electronic shopping and electronic auctions	454111–12	1,388	D	5	0	0	D
Transportation and warehousing	48–49	675	D	58 i	0	0	D
Information	51	62,296	832 i	4,072	4,668	3,046	49,678
Publishing	511	34,869	431 i	1,969 i	1,321	1,335	29,813
Newspaper, periodical, book, and directory publishers	5111	88 i	21 i	20 i	47 i	0	0
Software publishers	5112	34,781	410 i	1,949 i	1,274	1,335	29,813
Telecommunications	517	3,710	54 i	262 i	272	569 i	2,552
Data processing, hosting, and related services	518	8,926	275 i	1,586	2,711	984	3,370
Other information	other 51	14,791	72 i	255	364	157	13,942
Finance and insurance	52	4,090	55 i	95	258	335	3,347
Real estate and rental and leasing	53	262	17 i	8	49	189	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	55	3 i	3	49	0	0
Other real estate and rental and leasing	other 53	207	14 i	5	0	189	0
Professional, scientific, and technical services	54	16,061 i	2,474 i	5,172	3,466	741 i	4,209 i
Architectural, engineering, and related services	5413	1,503 i	276 i	617 i	462	148	*
Computer systems design and related services	5415	8,644 i	1,505 i	2,186 i	1,541 i	495 i	2,917 i
Scientific R&D services	5417	2,668	308 i	1,777	562	10	11
Biotechnology R&D	541711	692	D	443	D	0	0

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Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,950	223 i	1,328	377	10	11
Social sciences and humanities R&D	541720	26	D	6	D	0	0
Other professional, scientific, and technical services	other 54	3,245 i	385 i	592	901	88	1,281 i
Health care services	621–23	439 i	72 i	106	141	120 i	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	791 i	D	283	119	D	0
All companies (number of domestic employees)	–	282,570	8,248 i	22,095	25,722	16,335	210,170
Small companies ^a							
5–499	–	42,889	7,999 i	18,653	11,729	2,782	1,725
5–99	–	21,695 i	6,677 i	11,360	3,354	304 i	0
5–49	–	14,169 i	5,285 i	7,788	1,042	54	0
5–9	–	2,426 i	1,242 i	1,184	0	0	0
10–24	–	5,506 i	2,410 i	2,746	350 i	0	0
25–49	–	6,237 i	1,634 i	3,857 i	692	54	0
50–99	–	7,526	1,392 i	3,573	2,312	250 i	0
100–249	–	11,006	1,010 i	4,958	3,792	1,140	106
250–499	–	10,188	312 i	2,335	4,584	1,338	1,619
Medium and large companies							
500–999	–	11,736	127 i	1,441	4,016	2,795	3,357
1,000–4,999	–	47,807	72 i	1,607	7,102	7,046	31,981
5,000–9,999	–	30,680	4 i	192	1,670	2,153	26,661
10,000–24,999	–	46,904	43 i	120	763	1,147 i	44,831
25,000 or more	–	102,555	3 i	82	442	412	101,614

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. R&D program size classifications are based on R&D performance.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.